

A Comparison Between Sulfite and Sulfate Pulp,
by H. W. Giertz, 27 pp.

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23, 15 Dec 1953, pp 893-899.

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The Basic Differences Between Sulfite and
Sulfate Pulps, by H. W. Giertz.
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NTC 69-12589-111

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BLEACHED MAGNESIUM BISULPHITE PULP. [1961]
[15]p. 12 refs.
Order from SLA \$1.60

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Trans. of Norsk Skogindustri (Norway) 1960, v. 14,
no. 10, p. 369-377.

DESCRIPTORS: Sulfites, *Wood pulp, Processing,
Sulfate pulp, Mechanical properties, *Bleaching agents.

The unbleached magnesium-bisulfite pulp is characterized by high yield and high strength. When bleached with the sequence chlorine-alkali-chlorine dioxide, a large part of the high yield is lost. The optimum yield of bleached pulp is about 50% compared with 47 to 48% for sulfur dioxide-calcium-sulfite pulp. Magnesium-bisulfite pulp retains its good strength after bleaching. The bleached pulp is somewhat more difficult to beat than the unbleached, but it has the same high breaking and burst strength as the unbleached pulp, which is com
(Materials--Wood, TT, v. 6, no. 5) (over)

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ON THE TEAR STRENGTH OF PAPER. Apr 61, 15p.
(23 figs. omitted) 10 refs.
Order from SLA \$1.60

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Trans. of Norsk Skogind[ustri] (Norway) 1960, v. 14,
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DESCRIPTORS: *Paper, Wood pulp fibers, Mechanical
properties, Microstructure, Test methods.

In this essay, the theories on tearing strength are re-
viewed, with emphasis on the theory of Van den Akker.
The factors determining the tearing strength are of two
types; the fibre properties, such as fibre length and
strength, and the paper microstructural factors.
Among the latter, fibre bindings and paper extensibility
are considered to be of particular importance. The in-
fluence of these two types of factors on paper tearing
strength is illustrated by some simple experiments de-
signed to check the validity of current theories. The
(Materials--Paper. TT, v. 6, no. 4) (over)

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2. Wood pulp--Properties
1. Giertz, H. W.

Trans. of Norsk Skogindustri (Norway) 1960, v. 14,
no. 8, p. 281-291.

Small fibred pulp may be used for fine paper, and it
possesses characteristics, which are especially
suited for it. It gives good formation and surface
with a minimum of beating.

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Preparation of Sulphite Pulps in High Yield, by
A. Bolviken, William H. Giertz, 7 pp.

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INTERFERENCE FACTORS IN CONSISTENCY CONTROL. Paper from Scientific Conference of the Chamber of Engineering. Trade Association for Timber, Paper, Polygraphy (no. 17) Leipzig. Apr 61. Jan 63, 16p (figs omitted) 10 refs
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DESCRIPTORS: *Paper, Production, Automatic, *Quality control, Manufacturing methods, Diffusers, Wood pulp, Physical properties.

The paper deals briefly with the problems of pulp consistency control by illustrating the most important influencing factors. The following factors interfere greatly with the utilization of the measuring impulses which can be gained during control: Dependence of measurement on material properties. (over)

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Order from SLA \$1.60

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Trans. of Zellstoff u[nd] Papier (Germany) 1961, v. 10
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Measurement, Elastic webbing, Temperature, *Paper,
Dyes, Sizing, Quality control, Production.Investigations made on an experimental device based
on the principle of measuring the dielectric constant
showed that instrument readings are greatly affected
by disturbing factors originating from the paper such
as basis weight, filler content and the type of pulp.
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Mathematical methods necessary for the statistical analysis of yarn and filament irregularity are summarized. The functions characterizing statistical properties, autocorrelogram, spectrum, and variance-length curve, are defined and some relations existing between them are given. Their shape is discussed for the most important types of statistical functions. The degree of accuracy of the determination of these characteristics (Materials--Textiles, TT, v. 6, no. 6) (over)

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DESCRIPTORS: *Calcium compounds, *Carbides, Cupola furnaces, Additives.

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FROM: THE AMERICAN CONSUL, NEW YORK
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JAN 1963

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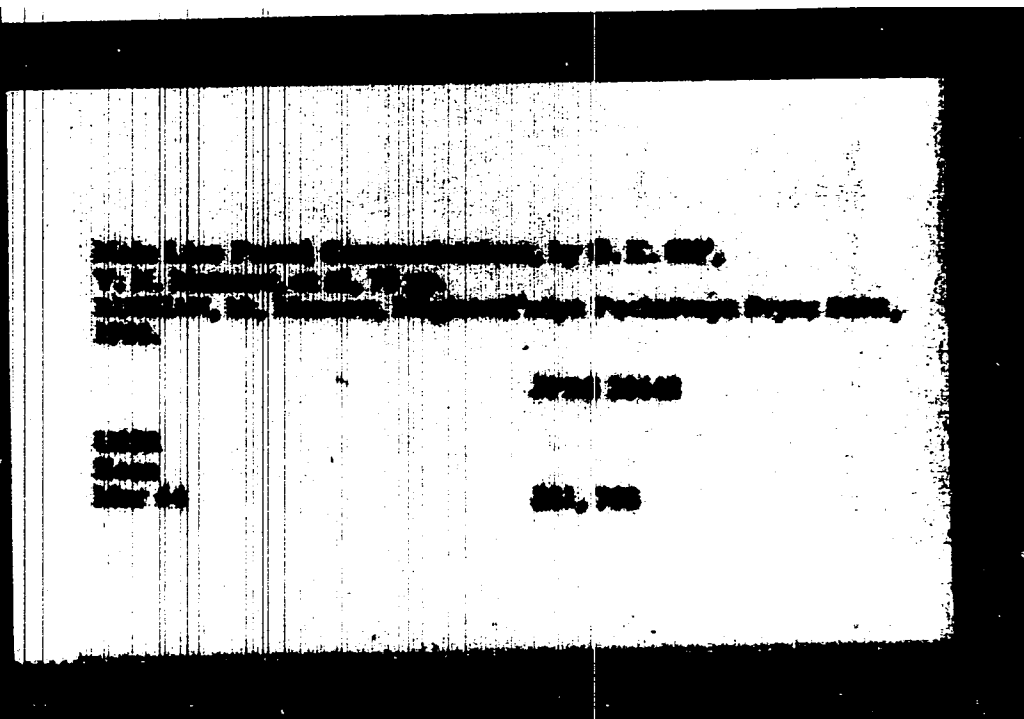
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